THREE MILE ISLAND NUCLEAR STATION STATION HEALTH PHYSICS PROCEDURE 1608

AIR SAMPLING FOR TRITIUM

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Unit Superintendent

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THREE MILE ISLAND NUCLEAR STATION STATION HEALTH PHYSICS PROCEDURE 1608 - Air Sampling for Tritium

1.0	PURPOSE
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The purpose of this procedure is to describe in detail the procedure for Air Sampling for Tritium.

2.0 DISCUSSION

Tritium is a radioactive form of hydrogen which exists in nature in very small amounts; but can be produced artificially by a nuclear reaction. Tritium has a half life of 12.26 years. Since Tritium emits a soft Beta (18 KeV) and it can be a potential internal hazard, monitoring is difficult and counting must be done by internal liquid scintillation counting.

- 3.0 REFERENCES
- 3.1 Radiological Health Handbook, Page 231
- 3.2 10 CFR 20, Appendix B, Table I or II
- 3.3 HPP 1741 and P.C.P. 1951
- 4.0 EQUIPMENT
- 4.1 Tritium Sampler -
- 4.2 Stop Watch
- 5.0 OPERATING INSTRUCTIONS
- 5.1 Take jar containing 100ml demineralized water and screw jar to collector.

5.7

5.2	Connect Tritium Air Sampler to power outlet.				
5.3	Simultaneously start air sampler and stop watch.				
5.4	Adjust flow to 500 cc/min.				
5.5	Switch off air sampler after 8 minutes, elapsed time.				
5.6	Unscrew jar and take sample to lab for preparation and counting				
	as per P.C.P. 1951 and H.P.P. 1741, respectively.				

Forward data to H.P. Supervisor for review and approval.

THI DOCUMENTS

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Wilds R. Mullinix, NRC

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